

Title (en)
RAPID PREPARATION OF STEM CELL MATRICES FOR USE IN TISSUE AND ORGAN TREATMENT AND REPAIR

Title (de)
RASCHE HERSTELLUNG VON STAMMZELLEMATRICES FÜR DIE GEWEBE- UND ORGANBEHANDLUNG UND -REPARATUR

Title (fr)
PREPARATION RAPIDE DE MATRICES DE CELLULES SOUCHES UTILISEE POUR LE TRAITEMENT ET LA REPARATION DE TISSU ET D'ORGANE

Publication
EP 1372398 B1 20130710 (EN)

Application
EP 02706457 A 20020222

Priority
• US 0206125 W 20020222
• US 27126701 P 20010223

Abstract (en)
[origin: WO02067867A2] The present invention describes a rapid method for preparing stem cell and physiologically acceptable matrix compositions for use in tissue and organ repair. Compared with previous tissue engineering materials, the stem cell-matrix compositions of the present invention do not require long-term incubation or cultivation in vitro prior to use in in vivo applications. The stem cells can be from numerous sources and may be homogeneous, heterogeneous, autologous, and/or allogeneic in the matrix material. The stem cell-matrix compositions as described provide point of service utility for the practitioner, wherein the stem cells and matrix can be combined not long before use, thereby alleviating costly and lengthy manufacturing procedures. In addition, the stem cells offer unique structural properties to the matrix composition which improves outcome and healing after use. Use of stem cells obtained from muscle affords contractility to the matrix composition.

IPC 8 full level
A61L 27/00 (2006.01); **A61L 27/36** (2006.01); **A61L 27/38** (2006.01); **C12N 5/00** (2006.01); **C12N 5/06** (2006.01); **C12N 5/074** (2010.01); **C12N 5/077** (2010.01); **C12N 11/02** (2006.01); **A61K 35/12** (2015.01)

CPC (source: EP US)
A61L 27/225 (2013.01 - US); **A61L 27/3629** (2013.01 - EP US); **A61L 27/3679** (2013.01 - US); **A61L 27/3834** (2013.01 - EP US); **A61P 9/00** (2017.12 - EP); **A61P 17/02** (2017.12 - EP); **A61P 21/00** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C12N 5/0068** (2013.01 - EP US); **C12N 5/0658** (2013.01 - EP US); **C12N 5/0668** (2013.01 - US); **C12N 5/0697** (2013.01 - US); **A61K 35/12** (2013.01 - EP US); **A61L 2430/22** (2013.01 - US); **C12N 2533/56** (2013.01 - EP US); **C12N 2533/74** (2013.01 - EP US); **C12N 2533/90** (2013.01 - US); **C12N 2533/92** (2013.01 - EP US)

Cited by
US7906110B2; US8790680B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02067867 A2 20020906; **WO 02067867 A3 20030227**; CA 2438904 A1 20020906; CA 2438904 C 20120904; EP 1372398 A2 20040102; EP 1372398 A4 20090624; EP 1372398 B1 20130710; JP 2004524029 A 20040812; JP 2007275613 A 20071025; JP 4680483 B2 20110511; JP 4791417 B2 20111012; US 2002155096 A1 20021024; US 2005220775 A1 20051006; US 2011223139 A1 20110915; US 2015017220 A1 20150115; US 2016101217 A1 20160414; US 7906110 B2 20110315; US 8790680 B2 20140729; US 9744267 B2 20170829

DOCDB simple family (application)
US 0206125 W 20020222; CA 2438904 A 20020222; EP 02706457 A 20020222; JP 2002567239 A 20020222; JP 2007149528 A 20070605; US 13816805 A 20050525; US 201113046120 A 20110311; US 201414322092 A 20140702; US 201514972402 A 20151217; US 8183502 A 20020222